

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS II145-6 REV B, AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA145-5 REV A
REF. TCCA STC: SH21-24
REF. EASA STC: 10077436
REF. FAA STC: SR04694NY

1.0 PURPOSE:

The purpose of this DART Service Instruction (DSI) is to provide DART customers (Airbus & operators) with instructions for:

1. Converting an aircraft with Fixed Provisions only (654.6718/6719) to an aircraft with Fixed Provisions only (654.6722/6723). This retrofit is required prior to completing item 3 if the aircraft has not previously been delivered/retrofitted to the 654.6722/6723 configuration. See Section 3.1.
2. Removing the Floats/Reservoirs and associated hardware (654.6724 kit) in order to reconfigure the aircraft with Fixed Provisions (654.6722/6723). See Section 3.2.
3. Installing the Floats/Reservoirs and associated hardware (654.6724 kit) on an aircraft configured with Fixed Provisions (654.6722/6723) in order to complete the full Floats Installation. See Section 3.3.

2.0 PARTS LIST:


QTY	QTY	F/N	PART No.	ALT PART No.	DESCRIPTION
-013	-011				
	X	N/A	DSI 9891-011		FIXED PROVISIONS CONVERSION KIT
X		N/A	DSI 9891-013		FIXED PROVISIONS CONVERSION KIT
2		17	649.5501		UPPER CLAMP ASSY
2	2	42	601.0776	MS21919WDG8	CLAMP
2	2	43	601.1592	MS21919WDG6	CLAMP
2	2	52	614.8010		TAB
8	4	53	601.0789	MS21043-3	NUT
24	12	54	601.0774	NAS1149C0363R	WASHER
10	10	55	601.0757	AN3C4A	BOLT
1		60	624.9001		MULTI CABLE BOX
4		67	601.1874	AN3C10A	BOLT
2	2	88	601.0720	AN3C5A	BOLT
1		127	634.6802		SWITCH ASSY
1	1	129	646.6004		MULTI-CABLE BOX BRACKET
1	1	131	AN929-6J	AN929-6K / AN929-6S	-6 BLANKING CAP
1	1	132	AN929-4J	AN929-4K / AN929-4S	-4 BLANKING CAP
4	4	134	634.9725		PLACARD
2	2	135	AN806-6J	AN806-6K / AN806-6S	-6 BLANKING CAP
2	2	136	AN806-4J	AN806-4K / AN806-4S	-4 BLANKING CAP

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 22.09.01
CERT. NO.: SH21-24
ISSUE NO.: 1


A	NEW ISSUE	AA	22.09.01
REV.	DESCRIPTION	BY	DATE
DESIGN	AA	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AA		
CHECKED	CZ	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9891	SHEET 1 OF 7
APPROVED	CZ	TITLE	SCALE
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3.0 PROCEDURE:

3.1 CONVERSION FROM 654.6718/6719 TO 654.6722/6723:

With reference to Drawing 654.6700 Rev B (or later approved revision) and Installation Instructions II145-6 Rev B (or later approved revision), use the following procedure to convert an aircraft with Fixed Provisions (654.6718/6719) to Fixed Provisions (654.6722/6723) using the DSI 9891-013 Fixed Provisions Conversion Kit:

1. Install Switch Assy (P/N 634.6802) and qty. (2) Clamp Assy (P/N 649.5501) on the FWD Crosstube using qty. (4) Bolts (P/N 601.1874) and associated hardware.
2. If installed, remove Hose Assy (P/N 602.3004) and Hose Assy (P/N 602.3005) from the Union Tee (P/N 601.1516) at the aft saddles on both skid tubes and remove the Union Tee (P/N 601.1516) from the Hose Assy (P/N 602.3003) on both sides.
3. If installed, remove Hose Assy (P/N 602.3011) from the Elbow (P/N 601.2368) at the aft saddle on both skid tubes and remove the Elbow (P/N 601.2368) from the Hose Assy (P/N 602.3009) on both sides.
4. Install AN806-4J blanking cap into the Hose Assy (P/N 602.3009) on both skid tubes.
5. Install AN806-6J blanking cap into the Hose Assy (P/N 602.3003) on both skid tubes.
6. Secure the Hose Assy (P/N 602.3009) and Hose Assy (P/N 602.3003) to the saddles on both skid tubes using hardware shown in Figure 1. Bend the Tab (P/N 614.8010) at a 45° angle to facilitate installation.
7. If installed, remove Hose Assy (P/N 602.3012) from the Union Tee (P/N 601.1516) on the RH side of the aft crosstube.
8. Install AN929-6J blanking cap on the Union Tees (P/N 601.1516) on the RH side of the aft crosstube where the hose was removed.
9. If installed, remove Hose Assy (P/N 602.3010) from the Union Tee (P/N 601.2370) on the LH side of the aft crosstube.
10. Install AN929-4J blanking cap in the Union Tee (P/N 601.2370) on the LH side of the aft crosstube where the hose was removed.
11. Remove cover from the Multi-Cable Box (P/N 624.9001).
12. If installed, remove the Pull Cable (P/N 646.5904) that runs from the Multi-Cable-Box (P/N 624.9001) to the valve on the Liferaft Reservoir (P/N 646.7504). Plug the hole in the Multi-Cable Box (P/N 624.9001) with Proseal.
13. Remove qty. (2) Liferaft Bracket Assy (P/N 646.6003) from the aircraft by removing qty. (2) Bolts (P/N 601.0720) and associated hardware per bracket.
14. Install the Multi-Cable Box Bracket (P/N 646.6004) at the forward Liferaft Bracket location using qty (2) Bolts (P/N 601.0720) and associated hardware. Plug the holes at the AFT Liferaft Bracket location using qty. (2) Bolts (P/N 601.0757) and qty. (2) Washers (P/N 601.0774).
15. Attach the Multi-Cable Box (P/N 624.9001) to the Multi-Cable Box Bracket (P/N 646.6004) using qty. (4) Bolts (P/N 601.0757) and associated hardware as shown in Figure 2.
16. Attach pull cables (P/N 646.5901, 646.5902, and 646.5903) to the Multi-Cable Box (P/N 624.9001) per Section 10.1 of II145-5 Rev B. Adjust pull cable routing to ensure 20mm (0.80") clearance to the aircraft grounding point.
17. Reinstall cover on to the Multi-Cable Box (P/N 624.9001).
18. At the customer's discretion, it is acceptable to remove qty. (2) Float Brackets (P/N 651.4010) from the aircraft by removing the attachment hardware. These brackets are drilled to suit the aircraft, so they must be identified with the aircraft S/N from which they were removed as well as FWD/AFT location.
19. Apply "INACTIVE" placards (P/N 634.9725) next to the "EMER FLOATS" arming switch, the liferaft handle on the center console, and the liferaft T-handles on the FWD crosstube.

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3.0 PROCEDURE:

3.2 CONVERSION TO FIXED PROVISIONS:

With reference to Drawing 654.6700 Rev B (or later approved revision) and Installation Instructions II145-6 Rev B (or later approved revision), use the following procedure to convert an aircraft with the Full Float Kit (654.6718/6719/6720 or 654.6722/6723/6724) installed to Fixed Provisions Only (654.6722/6723) using the DSI 9891-011 Fixed Provisions Conversion Kit.


1. Ensure a safety pin (P/N 601.0761) is installed on the Liferaft Reservoir (P/N 646.7504).
2. Remove the Aft Floats (P/N 646.5543/5544) and the Fwd Floats (P/N 646.5405/5406) from the skidtubes by removing qty. (3) Bolts (P/N 601.4394) and associated hardware per float.
3. Disconnect Hose Assy (P/N 602.3004) and Hose Assy (P/N 602.3005) from the Union Tee (P/N 601.1516) at the aft saddles on both skidtubes and remove the Union Tee (P/N 601.1516) from the Hose Assy (P/N 602.3003) on both sides.
4. Disconnect Hose Assy (P/N 602.3011) from the Elbow (P/N 601.2368) at the aft saddle on both skidtubes and remove the Elbow (P/N 601.2368) from the Hose Assy (P/N 602.3009) on both sides.
5. Install AN806-4J blanking cap into the Hose Assy (P/N 602.3009) on both skidtubes.
6. Install AN806-6J blanking cap into the Hose Assy (P/N 602.3003) on both skidtubes.
7. Secure the Hose Assy (P/N 602.3009) and Hose Assy (P/N 602.3003) to the saddles on both skidtubes using the hardware shown in Figure 1. Bend the Tab (P/N 614.8010) at a 45° angle to facilitate installation.
8. Disconnect Hose Assy (P/N 602.3012) from the Union Tee (P/N 601.1516) on the RH side of the aft crosstube.
9. Install AN929-6J blanking cap on the Union Tee (P/N 601.1516) on the RH side of the aft crosstube where the hose was removed.
10. Disconnect the wiring harness to Float Reservoir (P/N 646.7402).
11. Undo qty. (2) Clamp Assy (P/N 601.8101) securing the Float Reservoir (P/N 646.7402) to the Float Brackets on the RH side of the aircraft and remove the Float Reservoir (P/N 646.7402) & qty. (2) Clamp Assy (P/N 601.8101) from the aircraft.
12. At the customer's discretion, it is acceptable to remove the qty. (2) Float Brackets (P/N 651.4010) from the aircraft by removing the attachment hardware. These brackets are drilled to suit the aircraft, so they must be identified with the aircraft S/N from which they are removed as well as FWD/AFT location.
13. Disconnect Hose Assy (P/N 602.3010) from the Union Tee (P/N 601.2370) on the LH side of the aft crosstube.
14. Install AN929-4J blanking cap in the Union Tee (P/N 601.2370) on the LH side of the aft crosstube where the hose was removed.
15. Remove the cover from the Multi-Cable-Box (P/N 624.9001).
16. Disconnect and remove the Pull Cable (P/N 646.5904) that runs from the Multi-Cable-Box (P/N 624.9001) to the Valve on the Liferaft Reservoir (P/N 646.7504). Plug the hole in the Multi-Cable Box (P/N 624.9001) with Proseal.
17. Loosen the qty (3) pull cables attached to the front of the Multi-Cable Box (P/N 624.9001) to gain access to the qty. (4) attachment bolts. Remove qty. (4) Bolts (P/N 600.0540) to separate the Multi-Cable-Box (P/N 624.9001) from the Cable Box Mount Assy (P/N 646.4302).
18. Undo qty. (2) Clamp Assy (P/N 648.5201) securing the Liferaft Reservoir (P/N 646.7504) to the Liferaft Brackets on the LH side of the aircraft and remove Liferaft Reservoir (P/N 646.7504), Cable Box Mount Assy (P/N 646.4302), and qty. (2) Clamp Assy (P/N 648.5201) from the aircraft.

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MFG. APPR.	N/A	DSI 9891	SHEET 3 OF 7
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DE APPR.	DS	H145 FLOAT CONVERSION	NTS
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3.0 PROCEDURE:

3.2 CONVERSION TO FIXED PROVISIONS (CONTINUED):


19. Remove qty. (2) Liferaft Bracket Assy (P/N 646.6003) from the aircraft by removing qty. (2) Bolts (P/N 601.0720) per bracket.
20. Install the Multi-Cable Box Bracket (P/N 646.6004) at the forward Liferaft Bracket location using qty. (2) Bolts (P/N 601.0720). Plug the holes at the AFT Liferaft Bracket location using qty. (2) Bolts (P/N 601.0757) and qty. (2) Washers (P/N 601.0774).
21. Attach the Multi-Cable Box (P/N 624.9001) to the Multi-Cable Box Bracket (P/N 646.6004) using qty. (4) Bolts (P/N 601.0757) and associated hardware as shown in Figure 2. Adjust pull cable routing to ensure 20mm (0.80") clearance to the aircraft grounding point. Secure the qty. (3) pull cables to the forward end of the Multi-Cable Box (P/N 624.9001).
22. Reinstall cover on to the Multi-Cable Box (P/N 624.9001).
23. Apply "INACTIVE" placards (P/N 634.9725) next to "EMER FLOATS" arming switch, the liferaft handle on the center console, and the liferaft T-handles on the FWD crosstube.

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3.3 CONVERSION TO FLOAT CONFIGURATION:

With reference to Drawing 654.6700 Rev B (or later approved revision) and Installation Instructions II145-6 Rev B (or later approved revision), use the following procedure to convert an aircraft with Fixed Provisions Only (654.6722/6723) to a Full Float Configuration using the 654.6724 Removable Provisions Kit. If an aircraft has been previously configured with Fixed Provisions (654.6718/6719), it will need to be reconfigured to Fixed Provisions (654.6722/6723) per Section 3.1 of this document prior to completing this conversion.

1. Ensure a safety pin (P/N 601.0761) is installed on the Liferaft Reservoir (P/N 646.7504).
2. Install the Aft Floats (P/N 646.5543/5544) and the Fwd Floats (P/N 646.5405/5406) on the skidtubes using qty. (3) Bolts (P/N 601.4394) and associated hardware per float.
3. Remove the hardware securing the Hose Assy (P/N 602.3009) and Hose Assy (P/N 602.3003) to the saddles on both skidtubes as shown in Figure 1.
4. Remove AN806-6J blanking cap from the Hose Assy (P/N 602.3003) at the aft saddle on both skidtubes.
5. Install a Union Tee (P/N 601.1516) into the Hose Assy (P/N 602.3003) and attach Hose Assy (P/N 602.3004) and Hose Assy (P/N 602.3005) to the Union Tee (P/N 601.1516) at the aft saddles on both skidtubes.
6. Remove AN806-4J blanking cap from the Hose Assy (P/N 602.3009) at the aft saddle on both skidtubes.
7. Install an Elbow (P/N 601.2368) into the Hose Assy (P/N 602.3009) and attach Hose Assy (P/N 602.3011) to the Elbow (P/N 601.2368) at the aft saddle on both skidtubes.
8. Remove AN929-6J blanking cap on the Union Tee (P/N 601.1516) on the RH side of the aft crosstube.
9. Attach Hose Assy (P/N 602.3012) to the Union Tee (P/N 601.1516) on the RH side of the aft crosstube.
10. Remove AN929-4J blanking cap on the Union Tee (P/N 601.2370) on the LH side of the aft crosstube.
11. Attach Hose Assy (P/N 602.3010) to the Union Tee (P/N 601.2370) on the LH side of the aft crosstube.
12. Remove the cover from the Multi-Cable-Box (P/N 624.9001).
13. Remove the Multi-Cable Box (P/N 624.9001) from the Multi-Cable Box Bracket (P/N 646.6004) by removing qty. 4 Bolts (P/N 601.0757) and associated hardware.
14. Remove the Multi-Cable Box Bracket (P/N 646.6004) at the forward Liferaft Bracket location on the LH side of the aircraft by removing qty. (2) Bolts (P/N 601.0720). Remove the qty. (2) Bolts (P/N 601.0757) and qty. (2) Washers (P/N 601.0774) plugging the AFT Liferaft Bracket installation location.
15. Install the qty. (2) Liferaft Bracket Assemblies (P/N 646.6003) in the Liferaft Bracket Provisions on the LH side of the aircraft using qty. (2) Bolts (P/N 601.0720) per bracket.
16. Install the Liferaft Reservoir (P/N 646.7504) and the Cable Box Mount Assy (P/N 646.4302) to the Liferaft Brackets (P/N 646.6003) on the LH side of the aircraft using qty. (2) Clamp Assy (P/N 648.5201).
17. Attach the Multi-Cable Box (P/N 624.9001) to the Cable Box Mount Assy (P/N 646.4302) using qty. (4) Bolts (P/N 600.0540) and associated hardware.
18. If the Float Brackets (P/N 651.4010) were removed or are otherwise not installed, reinstall Float Brackets (P/N 651.4010) per section 2.3 of II145-6 Rev. B. Since these brackets are drilled to suit the aircraft, the FWD and the AFT brackets must be installed at the proper location.
19. Remove Proseal plug from the attachment hole on the AFT side of the Multi-Cable Box (P/N 624.9001). Connect Pull Cable (P/N 646.5904) from the Multi-Cable-Box (P/N 624.9001) to the Valve on the Liferaft Reservoir (P/N 646.7504).
20. Install the Float Reservoir (P/N 646.7402) to the Float Brackets on the RH side of the aircraft using qty. (2) Clamp Assy (P/N 601.8101).
21. Connect the wiring harness to the Float Reservoir (P/N 646.7402).
22. Perform the rigging checks on the Liferaft Pull Cable Rigging per Section 10 of II145-6 Rev B.
23. Reinstall the cover on to the Multi-Cable Box (P/N 624.9001).
24. Remove the safety pin (P/N 601.0761) from the Liferaft Reservoir (P/N 646.7504).
25. Remove "INACTIVE" placards (P/N 634.9725) that are installed next to "EMER FLOATS" arming switch, the liferaft handle on the center console, and the liferaft T-handles on the FWD crosstube.

DESIGN	AA	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
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MFG. APPR.	N/A	DSI 9891	SHEET 5 OF 7
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4.0 REFERENCE FIGURES:

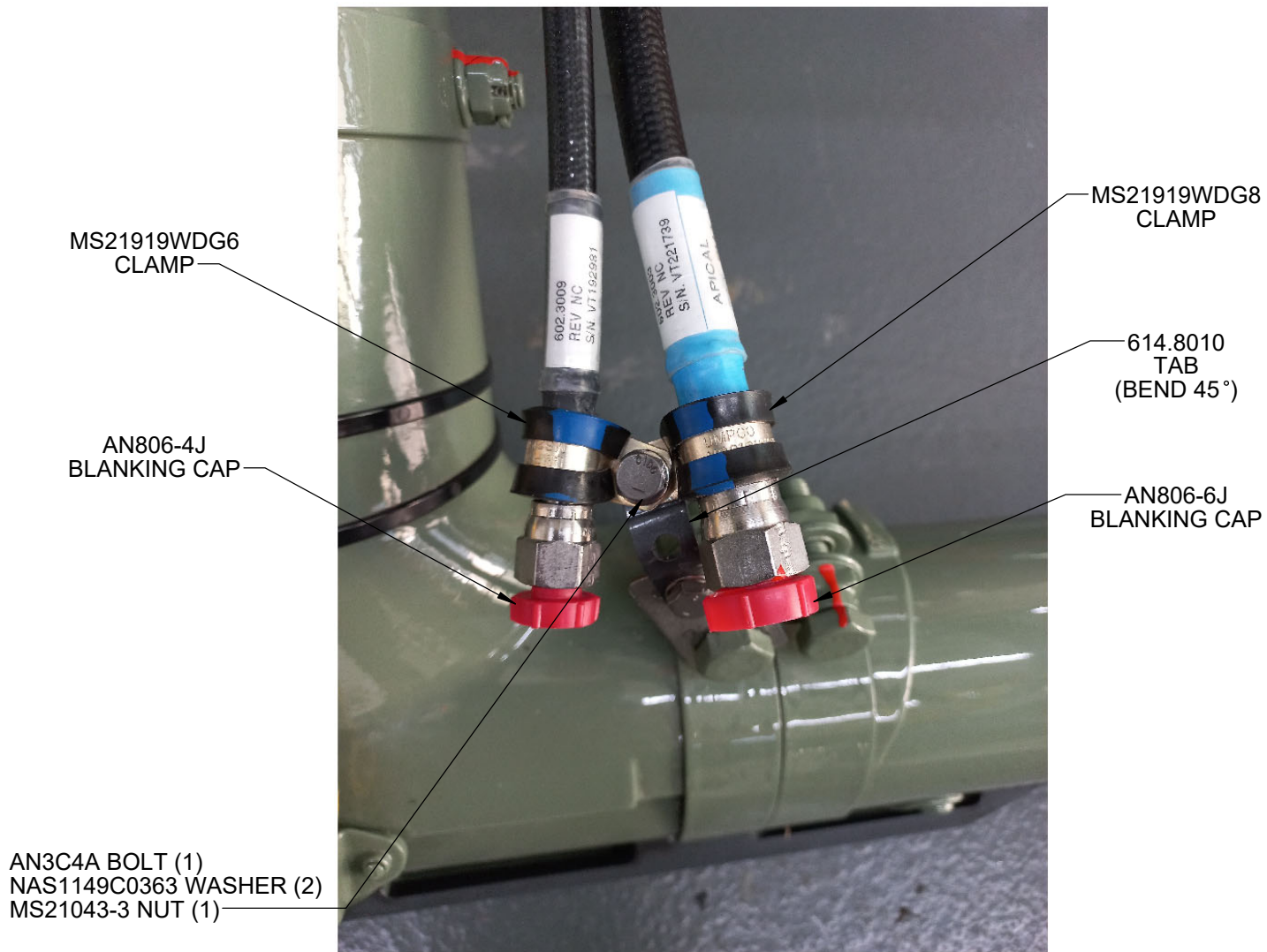


FIGURE 1: SECURE CROSSTUBE HOSES

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4.0 REFERENCE FIGURES (CONTINUED):

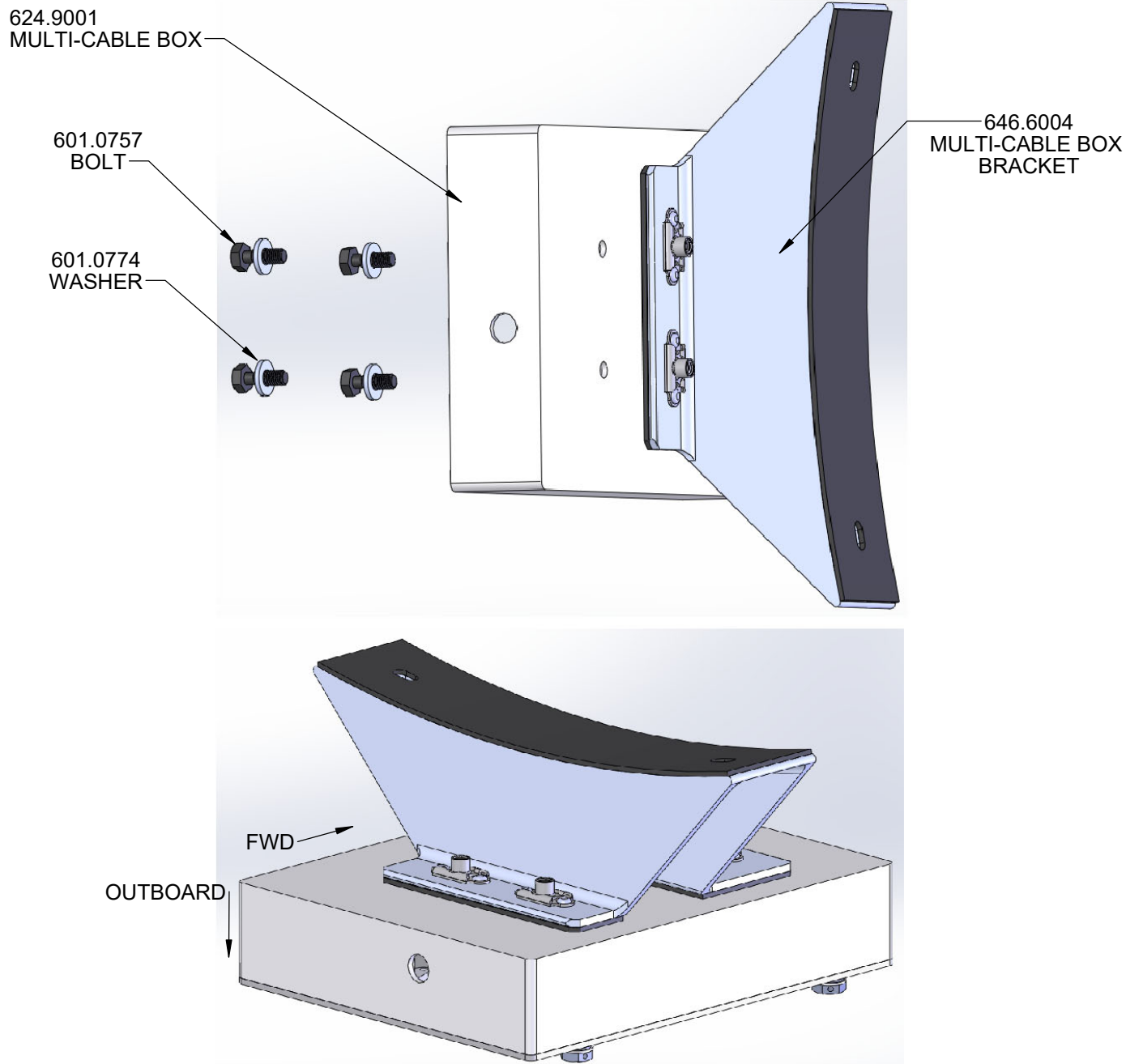


FIGURE 2: MULTI-CABLE BOX ASSEMBLED

5.0 WEIGHT AND BALANCE:

Once the conversion has been completed, update the Aircraft Weight and Balance using the information provided in II145-6 Rev B as applicable.

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MFG. APPR.	N/A	DSI 9891	SHEET 7 OF 7
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